Table S8. Liver cancer progression-associated gene signature. Identification of 20 genes from the zebrafish up-regulated enriched genes in both hyperplasia and carcinoma stages which remained up-regulated throughout human HCC progression from dysplasia (supplementary material Table S6) to carcinoma (supplementary material Table S7). These genes represent potential biological markers associated with liver cancer progression.

| No. | Gene Symbol | Gene Name |
|-----|-------------|--|
| 1 | APOE | Apolipoprotein E |
| 2 | CCNB1 | Cyclin B1 |
| 3 | CDC25A | Cell division cycle 25 homolog A (S. pombe) |
| 4 | DERL1 | Der1-like domain family, member 1 |
| 5 | MAPK1 | Mitogen-activated protein kinase 1 |
| 6 | MAPK3 | Mitogen-activated protein kinase 3 |
| 7 | MAPKAPK2 | Mitogen-activated protein kinase-activated protein kinase 2 |
| 8 | MCM5 | Minichromosome maintenance complex component 5 |
| 9 | MDM2 | Mdm2 p53 binding protein homolog (mouse) |
| 10 | MMP14 | Matrix metallopeptidase 14 (membrane-inserted) |
| 11 | NBN | Nibrin |
| 12 | NLK | Nemo-like kinase |
| 13 | PIK3CA | Phosphoinositide-3-kinase, catalytic, alpha polypeptide |
| 14 | PRKCB1 | Protein kinase C, beta |
| 15 | RRM2 | Ribonucleotide reductase M2 |
| 16 | RUVBL2 | RuvB-like 2 (E. coli) |
| 17 | SRC | v-Src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian) |
| 18 | THY1 | Thy-1 cell surface antigen |
| 19 | TK1 | Thymidine kinase 1, soluble |
| 20 | YWHAB | Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide |